



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Rajesh Kumar, et al. Art Unit : 1652  
Serial No. : 09/940,235 Examiner : Sheridan L. Swope  
Filed : August 27, 2001  
Title : NOVEL CLOT-SPECIFIC STREPTOKINASE PROTEINS POSSESSING  
ALTERED PLASMINOGEN ACTIVATION CHARACTERISTICS AND A  
PROCESS FOR THE PREPARATION OF SAID PROTEIN

**MAIL STOP AMENDMENT**

Commissioner for Patents  
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INFORMATION DISCLOSURE STATEMENT

The references cited on the enclosed form PTO-1449 are from the Declaration under 37 C.F.R. § 1.132 of Dr. Girish Sahni submitted on September 20, 2004. Copies of the references listed on the attached form PTO-1449 are enclosed.

This statement is being filed after a first Office action on the merits, but before receipt of a final Office action or a Notice of Allowance. A check for \$180 in payment of the late submission fee of §1.17(p) is enclosed. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date:

October 20, 2004

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Substitute Form PTO-1449 (Modified) <b>Information Disclosure Statement          by Applicant</b> (Use several sheets if necessary) (37 CFR §1.88(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07064-009002	Application No. 09/940,235
	Applicant Rajesh Kumar, et al.		
	Filing Date August 27, 2001	Group Art Unit 1652	

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

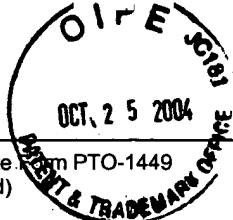
**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AN	Fay, William P, et al., "Functional Analysis of the Amin- and Carboxyl-Termini of Streptokinase," <i>Thromb Haemost</i> Vol. 19 pp. 985-991 (1998).
	AO	Jackson, Kenneth W., et al., "Streptokinase and Staphylokinase," Academic Press Vol.; 80 pp. 387-394 (1981).
	AP	Kim, Dong Min, et al. " Asp41-His48 Region of Streptokinase Is Important in Binding to a Substrate Plasminogen," <i>Thrombosis Research</i> Vol. 99 pp. 93-98 (2000).
	AQ	Kim, Chu Il, et al., "C-Terminal Peptide of Streptokinase, Met369-Pro373, Is Important in Plasminogen Activation," <i>Biochemistry and Molecular Biology International</i> Vol. 40, No.5 pp. 939-945 (1996).
	AR	Lee, Byeong Ryong, et al., "Site-Specific Alteration of GLY-24 in Streptokinase: Its Effect on Plasminogen Activation," <i>Biochemical and Biophysical Research Communications</i> Vol. 165, No. 3 pp. 1085-1090 (1989).

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07064-009002	Application No. 09/940,235
		Applicant Rajesh Kumar, et al.	
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(Use several sheets if necessary)

(37 CFR §1.98(b))

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AS	Lee, Si Hyoung, et al., "Identification of the Functional Important of Vatine-19 Residue in Streptokinase by N Terminal Deletion and Site-Directed Mutagenesk," <i>Biochemistry and Molecular Biology International</i> Vol. 41, No. 1 pp. 199-207 (1997).
	AT	Lin, Lee-Fong, et al., "Mutation of Lysines in a Plasminogen Binding Region of Streptokinase Identifies Residues Important for Generating a Functional Activator Complex," <i>Biochemistry</i> Vol. 35, pp. 16879-16885 (1996).
	AU	Malke, Horst, "Polymorphism of the Streptokinase Gene: Implications for the Pathogenesis of Post-Streptococcal Glomerulonephritis," <i>Gustav Fischer Verlag</i> Vol. 278 pp. 246-257 (1993).
	AV	Malke, Horst, et al., "Streptokinase: Cloning, Expression and Excretion by Escherichia Coli," <i>Proc. Natl. Acad. Sci. USA</i> Vol. 81 pp. 3557-3561 (1984).
	AW	Matsuka, Yury V., et al. "The NH <sub>2</sub> -terminal Fibrin-binding Site of Fibronectin Is Formed by Interacting Fourth and Fifth Finger Domains," <i>The Journal of Biological Chemistry</i> Vol. 269 pp. 9539-9546 (1994).
	AX	Nihalani, Deepak, et al., "Streptokinase Contains Two Independent Plasminogen-Binding Sites," <i>Academic Press, Inc.</i> Vol. 217 pp. 1245-1254 (1995).
	AY	Potts, Jennifer R., et al., "Solution Structure of the N-Terminal F1 Module Pair from Human Fibronectin," <i>Biochemistry</i> Vol. 38 pp. 8304-8312 (1999).
	AZ	Reed, Guy L., et al., "Identification of a Plasminogen Binding Region in Streptokinase That Is Necessary for the Creation of a Functional Streptokinase-Plasminogen Activator Complex," <i>Biochemistry</i> Vol. 34 pp. 10266-10271 (1995).
	AAA	Rostaagno, Agueda, et al., "Further Characterization of the NH <sub>2</sub> -terminal Fibrin-binding Site on Fibronectin," <i>The Journal of Biological Chemistry</i> Vol. 269 pp. 31938-31945 (1994).
	ABB	Saksela Olli, "Radical Caseinolysis in Agarose: A Simple Method for Detection of Plasminogen Activator in the Presence of Inhibitory Substances and Serum," <i>Biochemistry</i> pp. 276-282 (1981).
	ACC	Shi, Suey-Yueh, et al., "Function of Streptokinase Fragments in Plasminogen Activation," <i>Biochemistry Journal</i> pp. 235-241 (1994).
	ADD	Wang, Xiaoqiang, et al., "Crystal Structure of the Catalytic Domain of Human Plasmin Complexed with Streptokinase," <i>Science Magazine</i> Vol. 281 pp. 1662-1665 (1998).
	AEE	Welfle, K., et al., "Conformation and Stability of Streptokinases From Nephritogenic and Nonnephritogenic Strains of Streptococci," <i>Wiley-Liss, Inc.</i> Vol. 27 pp. 26-35 (1997).
	AFF	Williams, Michael J., et al., "Secondary Structure of a Pair of Fibronectin Type 1 Modules by Two-Dimensional Nuclear Magnetic Resonance," <i>Biochemistry</i> Vol. 32 pp. 7388-7395 (1993).
	AGG	Young, Kung-Chia, et al., "Interaction of Streptokinase and Plasminogen," <i>The Journal of Biological Chemistry</i> Vol. 270 pp. 29601-29606 (1995).

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